User's Manual

ICP-ETH

Dual or Quad Port Industrial-Grade Fast Ethernet Controller

MAN-ICP-ETH 2007
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CERTIFIED DIN ISO 9001 QUALITY SYSTEM

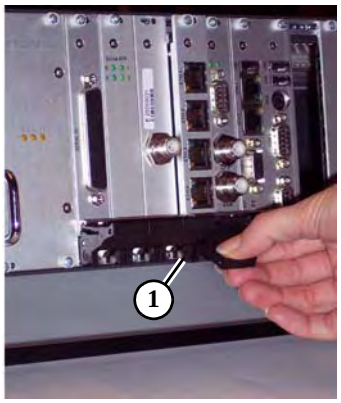
2.0 Hardware Installation

2.0.1 Inserting and replacing a blade

1+2

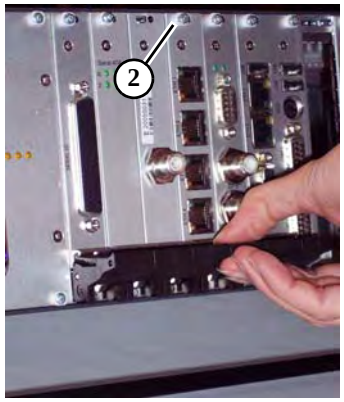
ICP ETH 2.01

3



ICP ETH 2.02

4+5



ICP ETH 2.03

If you are not using the installation CD copy the driver software to a folder of your choice before you plug in the ICP ETH blade. This is not a must but it can ease the installation.

The ICP ETH blades cannot be hot plugged. You must turn off the system before inserting or removing them.

To build in a blade follow the next 6 steps.

1) Turn off the system
2) Carefully insert the ICP ETH blade into the bay.
3) Slide in the blade until the injection lever hits the chassis. (1)
4) Push up the injection lever in its topmost position. This will fix the blade in the bay and plug it into the back plane.
5) Additionally fix the blade with the fastening screw! (2)
6) Turn on the system

Attention!

Always turn off the system when inserting or replacing the ICP ETH blade to avoid damage to the system or to the ICP ETH controller!

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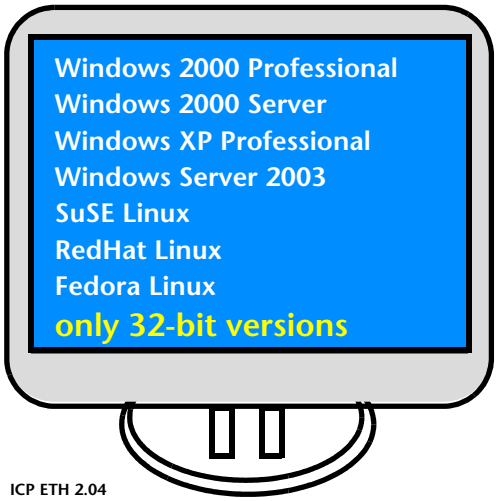
2.1 Software Installation



ICP ETH 2.04

After you have plugged in the ICP ETH blade into the system you must install the necessary drivers. This is prerequisite for proper operation of the Ethernet ports.

You can operate the ICP ETH with the following 32-bit operating systems:

- Windows 2000 Professional
- Windows 2000 Server
- Windows XP Professional
- Windows Server 2003
- SuSE Linux
- RedHat Linux
- Fedora Linux

The installation of drivers on a Windows system or a Linux system is different.

2.1.1 Installing the Windows driver

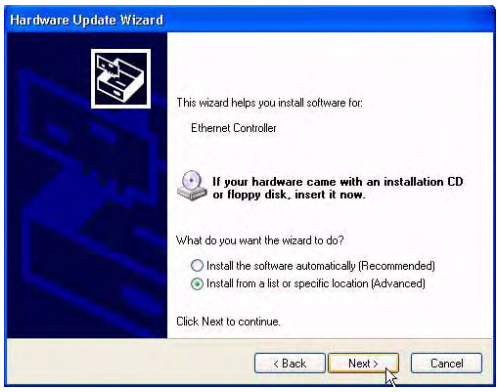
Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

ICP ETH 2.05

After plug in the IPC ETH and turning on the system the „Found New Hardware Wizard“ starts.

- Select the option „No, not this time“ and click „Next“

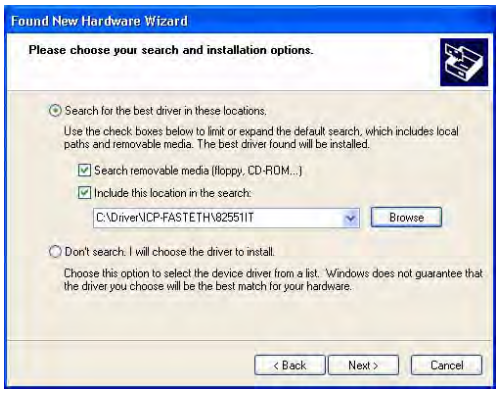
There is no need for connecting Windows with the internet and looking for an update at this time.


Hardware Update Wizard
This wizard helps you install software for:
Ethernet Controller
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

ICP ETH 2.06

Next the „Hardware Update Wizard“ asks you for the installation process.

- Select „Install from a list or specific location (Advanced)“ and klick „Next“.


Found New Hardware Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
C:\Driver\ICP-FASTETH\82551IT
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel

ICP ETH 2.07

Back in the „Found New Hardware Wizard“ select:

- „Search for the best drivers in these locations“

If you' re using the installation CD select:

- „Search removable media (floppy, CD)“
- Klick „Next“

If you're installing from a folder or USB stick:

- Select: „Include this location“
- Browse to the folder where the driver is stored mark this folder, and confirm your selection with „OK“.
- Klick „Next“

Hardware Installation
The software you are installing for this hardware:
Intel(R) 82551IT PCI Adapter
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

ICP ETH 2.08

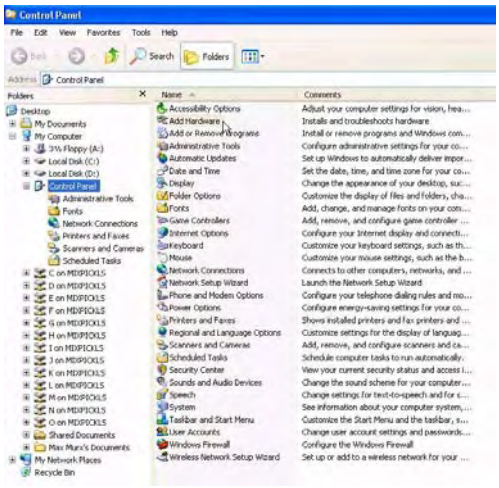
If you're working with Windows XP or Windows Server 2003 a message informs you that

„The software you are installing for this hardware: Intel(R) 82551IT PCI Adapter has not passed Windows Logo testing to verify its compatibilty with Windows XP“

- Klick „Continue Anyway“ because this driver won't affect your system negatively.

Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
Intel(R) 82551IT PCI Adapter
Click Finish to close the wizard.
< Back
Finish
Cancel

ICP ETH 2.09



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Add Hardware Wizard
The following hardware is already installed on your computer
From the list below, select an installed hardware device, then click Next to check properties or troubleshoot a problem you might be having.
To add hardware not shown in the list, click "Add a new hardware device."
Installed hardware:
Ethernet Controller
Ethernet Controller
Ethernet Controller
Ethernet Controller
RADEON 7000 / RADEON VE Family (Microsoft Corporation)
Audio Codecs
< Back
Next >
Cancel

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Now the „Found New Hardware Wizard“ completes the installation of the driver.

- Click „Finish“

This process installs the driver for only one port. Because the ICP ETH uses one controller for every single port you have to repeat the installation one more time or four times.

To repeat the driver installation for the remaining ports follow the steps of the „Hardware Update Wizard“ and „Found New Hardware Wizard“ again.

If the installation for the remaining ports won't start automatically there two ways:

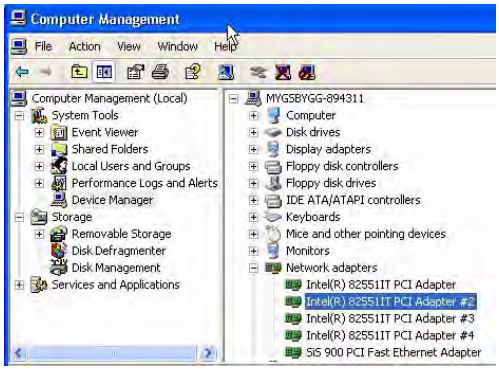
- Open „Start - My Computer - Control Panel“
- Double klick „Add Hardware“
- Follow the instructions of the wizard

or

- Open „Start - My Computer - Control Panel - Computer Management - Device Manager“
- Right klick one of the entrie „Ethernet Controller“ marked by a yellow questionmark
- Klick „Update driver“
- Follow the instructions of the wizard

Now the „Hardware Update Wizard“ and the „Found New Hardware Wizard“ will guide you trough the driver installation again.

Repeat this process for every entry „Multifunction Device“ marked by a yellow questionmark.



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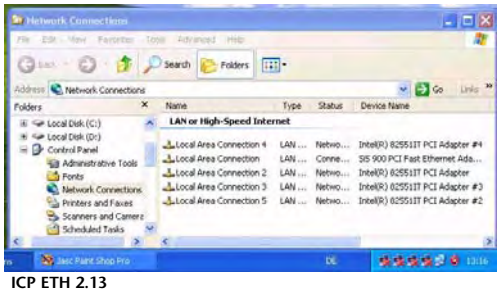
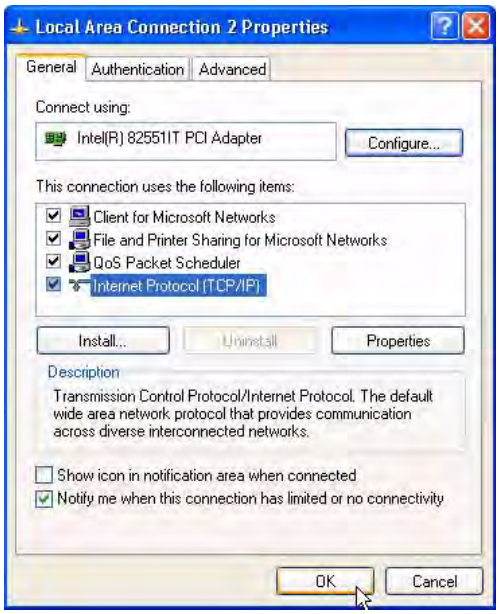


ICP ETH 2.13



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After you've installed every single Ethernet adapter confirm the correct installation in

- „Start - My Computer - Control Panel - Computer Management - Device Manager - Network adapters".

A green network adapter icon must be in front of every Intel(R) 82551IT PCI Adapter.

A yellow question mark or exclamation mark in front of the network adapter indicates a problem with the driver or the network adapter itself. Again install the driver for that network adapter.

You also should find all network adapters in

- „Start - My Computer - Control Panel - Network Connections"

Now you can cofigure each single network adapter for your specific network.

To configure a network adapter

- right klick a specific „Local Area Connection" and select „Properties".
- In the properties dialog box for this connection e.g. „Local Area Connection 2 Properties" select „Internet Protocol (TCP/IP)" and klick properties.

For further configuration follow your Windows documentation.

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